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Advanced Combustion Technologies and Emission Control

Guest Editor:

Dr. Lingnan Wu

Institute of Engineering
Thermophysics, Chinese
Academy of Sciences, Beijing
100190, China

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Message from the Guest Editor

Dear Colleagues,

This Special Issue is intended to contribute to the development of advanced combustion and emission control technologies for low-carbon and zero-carbon fuels, aiming to promote the study of combustion, pollutant generation, and mitigation mechanisms against the background of the carbon neutrality strategy. This Special Issue will focus on, but is not limited to, the following topics:

- The Fundamental combustion physics and chemistry of low-carbon/zero-carbon fuels and their blends with traditional fuels;
- Studies of the mechanisms involved and kinetic modeling of low-carbon/zero-carbon fuel combustion and pollutant emissions;
- Advanced diagnostic technology for low-carbon/zero-carbon fuel combustion;
- Emission control technology for low-carbon/zero-carbon fuel combustion;
- Advanced Combustion technologies for low-carbon/zero-carbon fuels utilization;
- Catalytic combustion and emission mitigation for low-carbon/zero-carbon fuels;
- The use of AI for low-carbon/zero-carbon fuel combustion studies.



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Special Issue



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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Industrial Engineering, University
Nicolò Cusano, 00166 Roma,
Italy

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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